



Forbidden V

Sample ID: G3K0196-05

Matrix: Industrial Hemp

Test ID: 5023474

Source ID:

Date Sampled: 11/13/23

Date Accepted: 11/13/23

Fern Valley Farms
fernvalleycbd@gmail.com

Results at a Glance

Total THC : 0.34 %

Total CBD : 9.9 %

Total CBG : 0.49 %

CBDVA : 6.9 % dry **PASS**

Percent Moisture : 9.28 % **PASS**

Total Terpenes : 2.543 % **PASS**



ISO 17025
ACCREDITED
LABORATORY

Eric Wendt
Chief Science Officer - 11/17/2023

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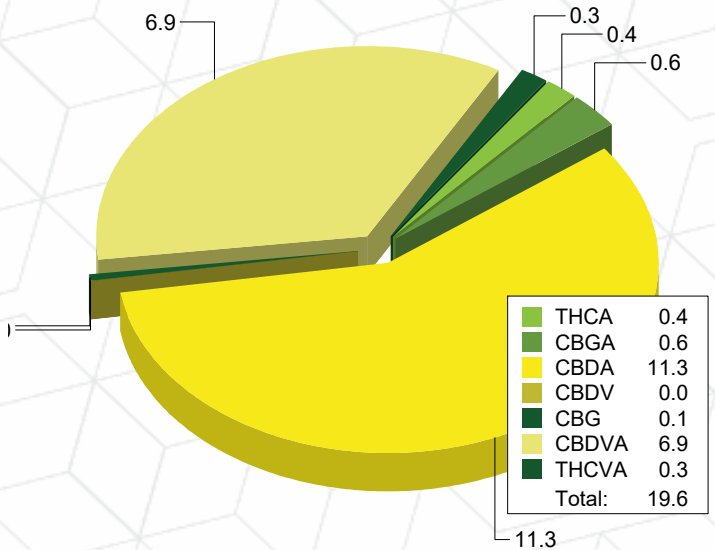
Potency Analysis

Date/Time Extracted: 11/15/23 15:45

Analysis Method/SOP: 215

Batch Identification: 2346045

	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile	
Total THC	0.010	0.34	3.4		
Total CBD	0.009	9.9	99		
Total CBG	0.0009	0.49	4.9		
THCA	0.0006	0.39	3.9		
delta 9-THC	0.0006	< LOQ	< LOQ		
delta 8-THC	0.005	< LOQ	< LOQ		
THCV	0.006	< LOQ	< LOQ		
THCVA	0.002	0.33	3.3		
CBD	0.002	< LOQ	< LOQ		
CBDA	0.002	11	110		
CBDV	0.006	0.021	0.21		
CBDVA	0.002	6.9	69		
CBN	0.003	< LOQ	< LOQ		
CBG	0.0009	0.073	0.73		
CBGA	0.003	0.57	5.7		
CBC	0.040	< LOQ	< LOQ		



Moisture

Date/Time Extracted: 11/16/23 14:55

Analysis Method/SOP: 103

Moisture: 9.28 %

Action Level: 90%

Potency results are reported on a dry weight basis.

Total THC = delta 9-THC + (THCA * 0.877)

Total CBD = CBD + (CBDA * 0.877)

Total CBG = CBG + (CBGA * 0.878)

LOQ=Limit of Quantification, the lowest measurable concentration of an analyte.

THCA, delta 9-THC, delta 8-THC, CBDA and CBD are accredited by TNI 2016 and ISO 17025



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Test ID: 5023474

Source ID:

Date Sampled: 11/13/23

Date Accepted: 11/13/23

Fern Valley Farms
fernvalleycbd@gmail.com

Terpene Analysis by GCMS

Date/Time Extracted: 11/15/23 15:45

Analysis Method/SOP: 204

Date/Time Analyzed: 11/16/23 05:19

Analyte	Result	LOD	LOQ	Units	Analyte	Result	LOD	LOQ	Units
(-)-Borneol	0.07	0.001	0.003	mg/g	(+)-Borneol	0.06	0.001	0.003	mg/g
3-Carene	< LOQ	0.001	0.003	mg/g	alpha-Bisabolol	1.25	0.001	0.003	mg/g
alpha-Cedrene	< LOQ	0.001	0.003	mg/g	alpha-Humulene	1.94	0.001	0.003	mg/g
Alpha-Phellandrene	< LOQ	0.001	0.003	mg/g	alpha-Pinene	1.07	0.001	0.003	mg/g
alpha-Terpinene	< LOQ	0.001	0.003	mg/g	alpha-Thujone	< LOQ	0.001	0.003	mg/g
A-Terpineol	0.24	0.001	0.003	mg/g	beta-Caryophyllene	4.32	0.001	0.003	mg/g
beta-Myrcene	6.59	0.001	0.003	mg/g	beta-Pinene	0.48	0.001	0.003	mg/g
Camphene	< LOQ	0.001	0.003	mg/g	Camphor	< LOQ	0.001	0.003	mg/g
Carvacrol	< LOQ	0.001	0.003	mg/g	Carvone	< LOQ	0.001	0.003	mg/g
Caryophyllene Oxide	0.42	0.001	0.003	mg/g	Cedrol	< LOQ	0.001	0.003	mg/g
Cis-beta-Farnesene	0.84	0.001	0.003	mg/g	Cis-beta-Ocimene	3.12	0.001	0.003	mg/g
cis-Nerolidol	0.37	0.001	0.003	mg/g	Citral	< LOQ	0.001	0.003	mg/g
Citronellol	< LOQ	0.001	0.003	mg/g	Endo-fenchyl alcohol	< LOQ	0.001	0.003	mg/g
Eucalyptol	< LOQ	0.001	0.003	mg/g	Farnesol 1	0.97	0.001	0.003	mg/g
Farnesol 2	< LOQ	0.001	0.003	mg/g	gamma-Terpinene	< LOQ	0.001	0.003	mg/g
Geraniol	< LOQ	0.001	0.003	mg/g	Geranyl acetate	< LOQ	0.001	0.003	mg/g
Guaiol	0.68	0.001	0.003	mg/g	Isoborneol	< LOQ	0.001	0.003	mg/g
Isobornyl Acetate	< LOQ	0.001	0.003	mg/g	Isopulegol	< LOQ	0.001	0.003	mg/g
Limonene	1.48	0.001	0.003	mg/g	Linalool	< LOQ	0.001	0.003	mg/g
Menthol	< LOQ	0.001	0.003	mg/g	Menthone	< LOQ	0.001	0.003	mg/g
Nootkatone	< LOQ	0.001	0.003	mg/g	Octyl Acetate	< LOQ	0.001	0.003	mg/g
p-Cymene	< LOQ	0.001	0.003	mg/g	Phytane	< LOQ	0.001	0.003	mg/g
Piperitone	< LOQ	0.001	0.003	mg/g	Pulegone	< LOQ	0.001	0.003	mg/g
Sabinene	< LOQ	0.001	0.003	mg/g	Sabinene hydrate	< LOQ	0.001	0.003	mg/g
Safranal	< LOQ	0.001	0.003	mg/g	Squalene	< LOQ	0.001	0.003	mg/g
Terpinen-4-ol	< LOQ	0.001	0.003	mg/g	Terpinolene	< LOQ	0.001	0.003	mg/g
Thymol	< LOQ	0.001	0.003	mg/g	trans-beta-Farnesene	0.81	0.001	0.003	mg/g
trans-beta-Ocimene	0.27	0.001	0.003	mg/g	trans-Nerolidol	0.45	0.001	0.003	mg/g
Valencene	< LOQ	0.001	0.003	mg/g	Verbenone	< LOQ	0.001	0.003	mg/g
Total Terpenes	25.43	0.001	0.003	mg/g					

ND - Compound not detected, <LOQ - Results below the Limit of Quantitation
Terpenes are not Accredited by ORELAP to TNI 2016 and ISO 17025



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Chief Science Officer - 11/17/2023

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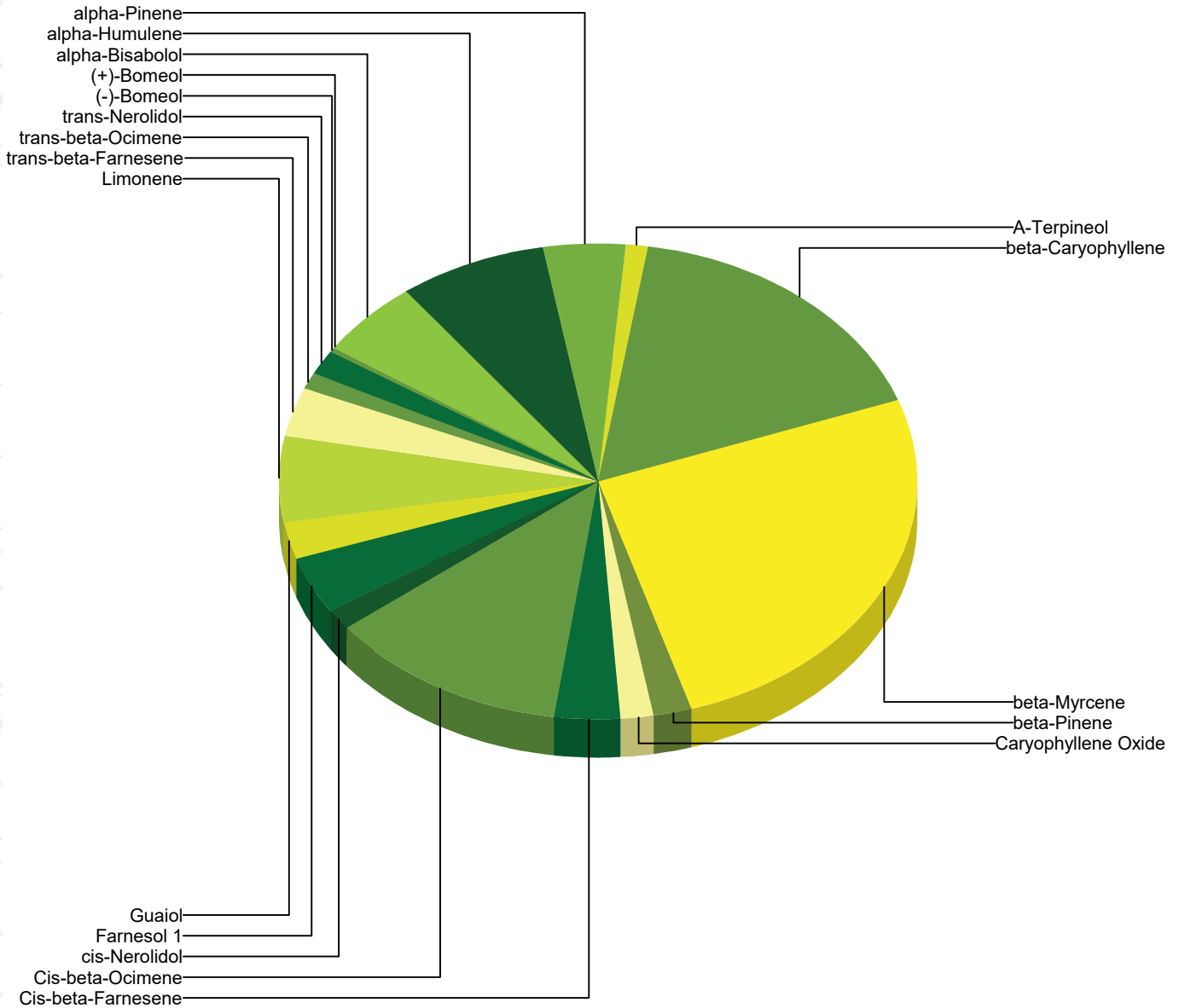
Source ID:

Date Sampled: 11/13/23

Date Accepted: 11/13/23

Fern Valley Farms
fernvalleycbd@gmail.com

Terpene Profile



Percentage of Total Terpenes Identified



Eric Wendt
Chief Science Officer - 11/17/2023



Quality Control Potency

Batch: 2346045 - 215-Hemp

Blank(2346045-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		11/15/23 15:45	11/16/23 05:19	
delta 9-THC	< LOQ	0.0005	%		11/15/23 15:45	11/16/23 05:19	
delta 8-THC	< LOQ	0.004	%		11/15/23 15:45	11/16/23 05:19	
THCV	< LOQ	0.005	%		11/15/23 15:45	11/16/23 05:19	
THCVA	< LOQ	0.002	%		11/15/23 15:45	11/16/23 05:19	
CBD	< LOQ	0.0005	%		11/15/23 15:45	11/16/23 05:19	
CBDA	< LOQ	0.0005	%		11/15/23 15:45	11/16/23 05:19	
CBDV	< LOQ	0.005	%		11/15/23 15:45	11/16/23 05:19	
CBDVA	< LOQ	0.002	%		11/15/23 15:45	11/16/23 05:19	
CBN	< LOQ	0.003	%		11/15/23 15:45	11/16/23 05:19	
CBG	< LOQ	0.0008	%		11/15/23 15:45	11/16/23 05:19	
CBGA	< LOQ	0.0008	%		11/15/23 15:45	11/16/23 05:19	
CBC	< LOQ	0.009	%		11/15/23 15:45	11/16/23 05:19	

Reference(2346045-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	95.2	0.0005	%	90-110	11/15/23 15:45	11/16/23 05:42	
delta 9-THC	98.2	0.0005	%	90-110	11/15/23 15:45	11/16/23 05:42	
delta 8-THC	106	0.004	%	90-110	11/15/23 15:45	11/16/23 05:42	
CBD	106	0.0005	%	90-110	11/15/23 15:45	11/16/23 05:42	
CBDA	98.4	0.0005	%	90-110	11/15/23 15:45	11/16/23 05:42	

Terpene Analysis

Batch: 2346045 - 215-Hemp

Blank(2346045-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Camphene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Camphor	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
3-Carene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
beta-Caryophyllene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Caryophyllene Oxide	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
alpha-Cedrene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Cedrol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Endo-fenchyl alcohol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Eucalyptol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Geraniol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Geranyl acetate	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Guaiol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	



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Quality Control Terpene Analysis (Continued)

Batch: 2346045 - 215-Hemp (Continued)

Blank(2346045-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Humulene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Isoborneol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Isopulegol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Limonene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Linalool	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
beta-Myrcene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
trans-Nerolidol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
alpha-Pinene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
beta-Pinene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Pulegone	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Sabinene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Sabinene hydrate	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
gamma-Terpinene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
alpha-Terpinene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Terpinolene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Valencene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Verbenone	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
trans-beta-Farnesene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
A-Terpineol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
cis-Nerolidol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Thymol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Terpinen-4-ol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Squalene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Safranal	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Piperitone	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Phytane	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
p-Cymene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Octyl Acetate	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Nootkatone	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Menthone	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Menthol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Isobornyl Acetate	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Farnesol 1	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Carvone	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
alpha-Thujone	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Alpha-Phellandrene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
(+)-Borneol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
(-)-Borneol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	



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Quality Control Terpene Analysis (Continued)

Batch: 2346045 - 215-Hemp (Continued)

Blank(2346045-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Carvacrol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
trans-beta-Ocimene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Cis-beta-Ocimene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Citral	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Citronellol	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Farnesol 2	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	
Cis-beta-Farnesene	< LOQ	0.00025	%		11/15/23 15:45	11/16/23 03:28	

Reference(2346045-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	129	0.00025	%	70-130	11/15/23 15:45	11/16/23 03:46	
beta-Caryophyllene	99.7	0.00025	%	70-130	11/15/23 15:45	11/16/23 03:46	
alpha-Humulene	99.3	0.00025	%	70-130	11/15/23 15:45	11/16/23 03:46	
Limonene	103	0.00025	%	70-130	11/15/23 15:45	11/16/23 03:46	

Batch: 2346056 - 103

Blank(2346056-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.440		%		11/16/23 14:55	11/16/23 14:55	

Blank(2346056-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.320		%		11/16/23 14:55	11/16/23 14:55	

Reference(2346056-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	105		%	80-120	11/16/23 14:55	11/16/23 14:55	

Reference(2346056-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	102		%	80-120	11/16/23 14:55	11/16/23 14:55	



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Notes and Definitions

Regulatory Compliance samples were collected onsite at facility according to SOP-402 and SOP-403 and following Sampling Plan FN117. Quality Control samples were tested as received. Results do not include uncertainty of measurements. Available upon request.

- ATM Non-cannabis matrix related interference or suppression of Internal standard
 - BLI Baseline Interference - Cannabinoid peak interference in chromatographic baseline affecting QC recovery .
 - BLK Analyte detected in method blank, but not associated samples.
 - BSH Blank Spike High - Blank Spike recovery above method limit. no detections in samples.
 - BSL Blank Spike Low - Blank Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
 - CBD Interference due to co-elution
 - CV1 CBD matrix interference on GC Pest chromatography
 - CV2 CCV was above acceptance criteria, Non-detect samples are considered acceptable.
 - INF CCV was below acceptance criteria, sample still exceeds regulatory limit.
 - ISH One or more QC falls outside acceptance criteria. Data entered into LIMS for informational purposes only.
 - ISL Internal Standard concentration is above acceptance criteria.
 - MSH Internal Standard concentration is below acceptance criteria.
 - MSI Matrix Spike High - Matrix Spike recovery above method limits.
 - MSL Matrix Spike Interference - Matrix spike source sample contains analyte hit above calibration affecting recovery accuracy in Matrix Spike.
 - TPP
 - U Matrix Spike Low - Matrix Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
- Internal Standard concentration outside control limit due to matrix interference



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